

FILE 'HOME' ENTERED AT 08:34:36 ON 04 MAY 2004

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 08:34:49 ON 04 MAY 2004
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

```
=> s alpha amylase#
FILE 'MEDLINE'
        474757 ALPHA
        20774 AMYLASE#
L1        4607 ALPHA AMYLASE#
                  (ALPHA (W) AMYLASE#)
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```
FILE 'SCISEARCH'
      674661 ALPHA
      16755 AMYLASE#
L2      7523 ALPHA AMYLASE#
                  (ALPHA (W) AMYLASE#)
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FILE 'LIFESCI'
152504 "ALPHA"
4368 AMYLASE#
L3 2623 ALPHA AMYLASE#
("ALPHA" (W) AMYLASE#)

FILE 'BIOTECHDS'
25812 ALPHA
5263 AMYLASE#
L4 3246 ALPHA AMYLASE#
 (ALPHA (W) AMYLASE#)

FILE 'BIOSIS'
621885 ALPHA
27540 AMYLASE#
L5 9831 ALPHA AMYLASE#
 (ALPHA (W) AMYLASE#)

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FILE 'EMBASE'
      533622 "ALPHA"
      15157 AMYLASE#
L6      3386 ALPHA AMYLASE#
                  ("ALPHA" (W) AMYLASE#)
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FILE 'HCAPLUS'
1472440 ALPHA
43594 AMYLASE#
L7 18090 ALPHA AMYLASE#
 (ALPHA (W) AMYLASE#)

FILE 'NTIS'
28564 ALPHA
163 AMYLASE#
L8 60 ALPHA AMYLASE#
 (ALPHA (W) AMYLASE#)

FILE 'ESBIOBASE'
191782 ALPHA
4032 AMYLASE#
L9 1935 ALPHA AMYLASE#
(ALPHA (W) AMYLASE#)

FILE 'BIOTECHNO'
189431 ALPHA
4194 AMYLASE#
L10 2130 ALPHA AMYLASE#
(ALPHA (W) AMYLASE#)

FILE 'WPIDS'
173434 ALPHA
5418 AMYLASE#
L11 2229 ALPHA AMYLASE#
(ALPHA (W) AMYLASE#)

TOTAL FOR ALL FILES
L12 55660 ALPHA AMYLASE#

=> s l12(5a)gene/q
FILE 'MEDLINE'
L13 584 L1 (5A)GENE/Q

FILE 'SCISEARCH'
L14 836 L2 (5A)GENE/Q

FILE 'LIFESCI'
L15 582 L3 (5A)GENE/Q

FILE 'BIOTECHDS'
L16 748 L4 (5A)GENE/Q

FILE 'BIOSIS'
L17 1005 L5 (5A)GENE/Q

FILE 'EMBASE'
L18 454 L6 (5A)GENE/Q

FILE 'HCAPLUS'
L19 1761 L7 (5A)GENE/Q

FILE 'NTIS'
L20 5 L8 (5A)GENE/Q

FILE 'ESBIOBASE'
L21 291 L9 (5A)GENE/Q

FILE 'BIOTECHNO'
L22 504 L10 (5A)GENE/Q

FILE 'WPIDS'
L23 161 L11 (5A)GENE/Q

TOTAL FOR ALL FILES
L24 6931 L12 (5A) GENE/Q

=> s hyperthermophil? or thermophil?
FILE 'MEDLINE'
1553 HYPERTHERMOPHIL?
7958 THERMOPHIL?
L25 9222 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'SCISEARCH'
 2252 HYPERTHERMOPHIL?
 13507 THERMOPHIL?
L26 15111 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'LIFESCI'
 1232 HYPERTHERMOPHIL?
 7918 THERMOPHIL?
L27 8580 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'BIOTECHDS'
 295 HYPERTHERMOPHIL?
 5392 THERMOPHIL?
L28 5460 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'BIOSIS'
 1981 HYPERTHERMOPHIL?
 17889 THERMOPHIL?
L29 18584 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'EMBASE'
 1493 HYPERTHERMOPHIL?
 8497 THERMOPHIL?
L30 9204 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'HCAPLUS'
 2159 HYPERTHERMOPHIL?
 17933 THERMOPHIL?
L31 19612 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'NTIS'
 31 HYPERTHERMOPHIL?
 486 THERMOPHIL?
L32 506 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'ESBIOBASE'
 1390 HYPERTHERMOPHIL?
 4943 THERMOPHIL?
L33 6041 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'BIOTECHNO'
 1309 HYPERTHERMOPHIL?
 6914 THERMOPHIL?
L34 7537 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'WPIDS'
 57 HYPERTHERMOPHIL?
 2096 THERMOPHIL?
L35 2129 HYPERTHERMOPHIL? OR THERMOPHIL?

TOTAL FOR ALL FILES
L36 101986 HYPERTHERMOPHIL? OR THERMOPHIL?

=> s l24 and l36

FILE 'MEDLINE'
L37 31 L13 AND L25

FILE 'SCISEARCH'
L38 39 L14 AND L26

FILE 'LIFESCI'
L39 37 L15 AND L27

FILE 'BIOTECHDS'

L40 96 L16 AND L28

FILE 'BIOSIS'
L41 48 L17 AND L29

FILE 'EMBASE'
L42 40 L18 AND L30

FILE 'HCAPLUS'
L43 70 L19 AND L31

FILE 'NTIS'
L44 1 L20 AND L32

FILE 'ESBIOBASE'
L45 26 L21 AND L33

FILE 'BIOTECHNO'
L46 41 L22 AND L34

FILE 'WPIDS'
L47 8 L23 AND L35

TOTAL FOR ALL FILES
L48 437 L24 AND L36

=> S l48 not 2002-2004/PY

FILE 'MEDLINE'
1267711 2002-2004/PY
L49 26 L37 NOT 2002-2004/PY

FILE 'SCISEARCH'
2328235 2002-2004/PY
L50 33 L38 NOT 2002-2004/PY

FILE 'LIFESCI'
204006 2002-2004/PY
L51 32 L39 NOT 2002-2004/PY

FILE 'BIOTECHDS'
51431 2002-2004/PY
L52 90 L40 NOT 2002-2004/PY

FILE 'BIOSIS'
1198431 2002-2004/PY
L53 41 L41 NOT 2002-2004/PY

FILE 'EMBASE'
1061934 2002-2004/PY
L54 34 L42 NOT 2002-2004/PY

FILE 'HCAPLUS'
2419872 2002-2004/PY
L55 58 L43 NOT 2002-2004/PY

FILE 'NTIS'
26824 2002-2004/PY
L56 1 L44 NOT 2002-2004/PY

FILE 'ESBIOBASE'
666483 2002-2004/PY
L57 21 L45 NOT 2002-2004/PY

FILE 'BIOTECHNO'

L58 244553 2002-2004/PY
34 L46 NOT 2002-2004/PY

FILE 'WPIDS'
2414671 2002-2004/PY
L59 6 L47 NOT 2002-2004/PY

TOTAL FOR ALL FILES
L60 376 L48 NOT 2002-2004/PY

```
=> dup rem 160  
PROCESSING COMPLETED FOR L60  
L61          135 DUP REM L60 (241 DUPLICATES REMOVED)
```

=> d

L61 ANSWER 1 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Novel, thermostable family-13-like glycoside hydrolase from *Methanococcus jannaschii*
SO *Folia Microbiologica* (Prague, Czech Republic) (2001), 46(6), 475-481
CODEN: FOMIAZ; ISSN: 0015-5632
AU Kim, J.-W.; Terc, H. A.; Flowers, L. O.; Whiteley, M.; Peeples, T. L.
AN 2002:140158 HCAPLUS
DN 137:59380

=> d 2-10

L61 ANSWER 2 OF 135 MEDLINE on STN DUPLICATE 1
TI Biochemical confirmation and characterization of the family-57-like
alpha-amylase of *Methanococcus jannaschii*.
SO *Folia microbiologica*, (2001) 46 (6) 467-73.
Journal code: 0376757. ISSN: 0015-5632.
AU Kim J W; Flowers L O; Whiteley M; Peeples T L
AN 2002167588 MEDLINE

L61 ANSWER 3 OF 135 MEDLINE on STN DUPLICATE 2
TI Novel glucoamylase-type enzymes from Thermoactinomyces vulgaris and Methanococcus jannaschii whose genes are found in the flanking region of the **alpha-amylase genes**.
SO Applied microbiology and biotechnology, (2001 Aug) 56 (3-4) 465-73.
Journal code: 8406612. ISSN: 0175-7598.
AU Uotsu-Tomita R; Tonozuka T; Sakai H; Sakano Y
AN 2001499375 MEDLINE

L61 ANSWER 4 OF 135 MEDLINE on STN DUPLICATE 3
TI Cloning and expression of alpha-amylase from the **hyperthermophilic**
archaeon Pyrococcus woesei in the moderately halophilic bacterium
Halomonas elongata.
SO Journal of applied microbiology, (2000 Mar) 88 (3) 495-503.
Journal code: 9706280. ISSN: 1364-5072.
AU Frillingos S; Linden A; Niehaus F; Vargas C; Nieto J J; Ventosa A;
Antranikian G; Drainas C
AN 2000212011 MEDLINE

L61 ANSWER 5 OF 135 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Cloning and expression of the **gene** encoding novel **alpha**
-**amylase** from *Sulfolobus shibatae* in *E. coli*.
SO Weishengwu Xuebao, (June, 2000) Vol. 40, No. 3, pp. 323-326. print.
CODEN: WSHPA8. ISSN: 0001-6209.
AU Liu Li [Reprint author]; Chen Wei [Reprint author]; Jin Cheng
AN 2001:49285 BIOSIS

L61 ANSWER 6 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI ON STN

- TI Characterization of hygromycin-resistant transformants of **thermophilic** fungus Thermomyces lanuginosus; plasmid pMP6-mediated hygromycin-resistance **gene** transfer together with **alpha-amylase**, glucoamylase, polygalacturonase and endo-1,4-beta-D-xylanase production
- SO World J.Microbiol.Biotechnol.; (2000) 16, 3, 303-06
CODEN: WJMBEY ISSN: 0959-3993
- AU Chadha B S; Kaur R; Saini H S; Singh S
- AN 2000-10928 BIOTECHDS
- L61 ANSWER 7 OF 135 MEDLINE on STN DUPLICATE 4
- TI Single-step purification of a recombinant thermostable alpha-amylase after solubilization of the enzyme from insoluble aggregates.
- SO Journal of chromatography. B, Biomedical sciences and applications, (2000 Jan 14) 737 (1-2) 253-9.
Journal code: 9714109. ISSN: 1387-2273.
- AU Linden A; Niehaus F; Antranikian G
- AN 2000143297 MEDLINE
- L61 ANSWER 8 OF 135 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
- TI Releasing profiles of gene products from recombinant Escherichia coli in a high-voltage pulsed electric field
- SO BIOCHEMICAL ENGINEERING JOURNAL, (JUN 2000) Vol. 5, No. 2, pp. 149-155.
Publisher: ELSEVIER SCIENCE SA, PO BOX 564, 1001 LAUSANNE, SWITZERLAND.
ISSN: 1369-703X.
- AU Ohshima T (Reprint); Hama Y; Sato M
- AN 2000:414547 SCISEARCH
- L61 ANSWER 9 OF 135 MEDLINE on STN DUPLICATE 5
- TI Cloning and expression of an **alpha-amylase** encoding **gene** from the **hyperthermophilic** archaeabacterium Thermococcus hydrothermalis and biochemical characterisation of the recombinant enzyme.
- SO FEMS microbiology letters, (2000 May 1) 186 (1) 67-71.
Journal code: 7705721. ISSN: 0378-1097.
- AU Leveque E; Haye B; Belarbi A
- AN 2000395702 MEDLINE
- L61 ANSWER 10 OF 135 MEDLINE on STN DUPLICATE 6
- TI Engineering direct fructose production in processed potato tubers by expressing a bifunctional **alpha-amylase**/glucose isomerase **gene** complex.
- SO Biotechnology and bioengineering, (2000 Oct 5) 70 (1) 9-16.
Journal code: 7502021. ISSN: 0006-3592.
- AU Beaujean A; Ducrocq-Assaf C; Sangwan R S; Lilius G; Bulow L;
Sangwan-Norreel B S
- AN 2001028442 MEDLINE
- => d 11-20
- L61 ANSWER 11 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
- TI Production of recombinant **thermophilic** alpha-amylase activity at low pH;
Thermococcus hydrothermalis recombinant enzyme production via plasmid pEAMY101 and plasmid p662EL100 expression in Escherichia coli
- AU Leveque E; Belarbi A; Haye B
- AN 2000-03337 BIOTECHDS
- PI FR 2778412 12 Nov 1999
- L61 ANSWER 12 OF 135 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
- TI A unique chitinase with dual active sites and triple substrate binding sites from the **hyperthermophilic** archaeon Pyrococcus kodakaraensis KOD1

- SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (DEC 1999) Vol. 65, No. 12, pp. 5338-5344.
Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW, WASHINGTON, DC 20005-4171.
ISSN: 0099-2240.
- AU Tanaka T; Fujiwara S; Nishikori S; Fukui T; Takagi M; Imanaka T (Reprint)
AN 1999:949061 SCISEARCH
- L61 ANSWER 13 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Coordinate transcriptional control in the **hyperthermophilic** archaeon *Sulfolobus solfataricus*
SO Journal of Bacteriology (1999), 181(13), 3920-3927
CODEN: JOBAAY; ISSN: 0021-9193
AU Haseltine, Cynthia; Montalvo-Rodriguez, Rafael; Bini, Elisabetta; Carl, Audrey; Blum, Paul
AN 1999:414107 HCAPLUS
DN 131:195320
- L61 ANSWER 14 OF 135 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
TI Purification and characterization of an extremely thermostable cyclomaltodextrin glucanotransferase from a newly isolated **hyperthermophilic** archaeon, a *Thermococcus* sp.
SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (MAY 1999) Vol. 65, No. 5, pp. 1991-1997.
Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW, WASHINGTON, DC 20005-4171.
ISSN: 0099-2240.
- AU Tachibana Y (Reprint); Kuramura A; Shirasaka N; Suzuki Y; Yamamoto T; Fujiwara S; Takagi M; Imanaka T
AN 1999:353855 SCISEARCH
- L61 ANSWER 15 OF 135 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Exogenous pleiotropic mutations that repress glycosyl hydrolase expression in the **hyperthermophilic** archaeon *Sulfolobus solfataricus*.
SO Genetics, (Aug., 1999) Vol. 152, No. 4, pp. 1353-1361. print.
CODEN: GENTAE. ISSN: 0016-6731.
AU Haseltine, Cynthia; Montalvo-Rodriguez, Rafael; Carl, Audrey; Bini, Elisabetta; Blum, Paul [Reprint author]
AN 1999:416085 BIOSIS
- L61 ANSWER 16 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Fermentation of starch by *Klebsiella oxytoca* P2, containing plasmids with **alpha-amylase** and pullulanase **genes**; for use in enzyme production or ethanol production
SO Biotechnol.Bioeng.; (1999) 65, 6, 673-76
CODEN: BIBIAU ISSN: 0006-3592
AU dos Santos V L; Fernandes Araujo E; Goncalves de Barros E; Vieira Guimaraes W
AN 2000-00826 BIOTECHDS
- L61 ANSWER 17 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Production of alpha-amylase in fed-batch cultures of vgb+ and vbg- recombinant *Escherichia coli*: some observations; *Bacillus stearothermophilus* recombinant enzyme production using host expressing (or not expressing) *Vitreoscilla hemoglobin*
SO Biotechnol.Prog.; (1999) 15, 4, 640-45
CODEN: BIPRET ISSN: 8756-7938
AU Enayati N; Tari C; *Parulekar S J; Stark B C; Webster D A
AN 1999-11780 BIOTECHDS
- L61 ANSWER 18 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Purification and characterization of the heat-labile α -amylase secreted by the psychrophilic bacterium TAC 240B

- SO Canadian Journal of Microbiology (1999), 45(6), 452-457
 CODEN: CJMIAZ; ISSN: 0008-4166
 AU Chessa, Jean-Pierre; Feller, Georges; Gerday, Charles
 AN 1999:504065 HCAPLUS
 DN 131:254106
- L61 ANSWER 19 OF 135 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI Close evolutionary relatedness of alpha-amylases from Archaea and plants.
 SO Journal of Molecular Evolution, (April, 1999) Vol. 48, No. 4, pp. 421-426.
 print.
 CODEN: JMEVAU. ISSN: 0022-2844.
 AU Janecek, Stefan [Reprint author]; Leveque, Emmanuel; Belarbi, Abdel; Haye,
 Bernard
 AN 1999:220372 BIOSIS
- L61 ANSWER 20 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Bioengineering of amylase and xylose isomerase thermozymes
 SO Special Publication - Royal Society of Chemistry (1999), 246 (Recent
 Advances in Carbohydrate Bioengineering), 253-262
 CODEN: SROCD0; ISSN: 0260-6291
 AU Zeikus, J. G.; Savchenko, A.; Sriprapundh, D.; Vieille, Claire
 AN 2000:29433 HCAPLUS
 DN 132:193269
- => d 21-30
- L61 ANSWER 21 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Amylase and 16S rRNA genes from a **hyperthermophilic**
 archaeabacterium
 SO Journal of Applied Microbiology (1999), 86(1), 93-107
 CODEN: JAMIFK; ISSN: 1364-5072
 AU Jones, R. A.; Jermini, L. S.; Easteal, S.; Patel, B. K. C.; Beacham, I. R.
 AN 1999:138511 HCAPLUS
 DN 131:40353
- L61 ANSWER 22 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI Regulation of the expression of amy TO1 encoding a thermostable
 alpha-amylase from Streptomyces sp. TO1, in its original host and in
 Streptomyces lividans TK24;
 thermostable alpha-amylase production
 SO FEMS Microbiol.Lett.; (1999) 181, 1, 31-39
 CODEN: FMLED7 ISSN: 0378-1097
 AU Mellouli L; Guerineau M; Bejar S; Virolle M J
 AN 2000-00399 BIOTECHDS
- L61 ANSWER 23 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI Synthetic and excretion of alpha-amylase in vgb+ and vgb-recombinant
 Escherichia coli: a comparative study;
 Bacillus stearothermophilus recombinant alpha-amylase production
 SO Biotechnol.Bioeng.; (1998) 59, 6, 673-78
 CODEN: BIBIAU ISSN: 0006-3592
 AU Tari C; *Parulekar S J; Stark B C; Webster D A
 AN 1999-12957 BIOTECHDS
- L61 ANSWER 24 OF 135 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 TI **Sequence** of archaeal Methanococcus jannaschii **alpha-**
amylase contains features of families 13 and 57 of glycosyl
 hydrolases: A trace of their common ancestor?
 SO FOLIA MICROBIOLOGICA, (FEB 1998) Vol. 43, No. 2, pp. 123-128.
 Publisher: FOLIA MICROBIOLOGICA, INST MICROBIOLOGY, VIDENSKA 1083, PRAGUE
 4, CZECH REPUBLIC 142 20.
 ISSN: 0015-5632.
 AU Janecek S (Reprint)

AN 1998:208636 SCISEARCH

L61 ANSWER 25 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Extracellular α -amylase from Thermus filiformis Ork A2: purification
and biochemical characterization
SO Extremophiles (1998), 2(1), 23-32
CODEN: EXTRFI; ISSN: 1431-0651
AU Egas, Maria C. V.; da Costa, Milton S.; Cowan, Don A.; Pires, Euclides M.
V.
AN 1998:144647 HCAPLUS
DN 128:241074

L61 ANSWER 26 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Hyperthermstable extracellular alpha-amylase from pyrococcus furiosus
SO Book of Abstracts, 216th ACS National Meeting, Boston, August 23-27
(1998), BTEC-019 Publisher: American Chemical Society, Washington, D. C.
CODEN: 66KYA2
AU Savchenko, A.; Dong, G.; Vieille, C.; Zeikus, G. J.
AN 1998:528470 HCAPLUS

L61 ANSWER 27 OF 135 MEDLINE on STN DUPLICATE 8
TI **alpha-Amylase gene of thermophilic**
Streptomyces sp. T01: nucleotide sequence, transcriptional and amino acid
sequence analysis.
SO FEMS microbiology letters, (1998 Mar 1) 160 (1) 17-23.
Journal code: 7705721. ISSN: 0378-1097.
AU Mellouli L; Ghorbel R; Virolle M J; Bejar S
AN 1998156111 MEDLINE

L61 ANSWER 28 OF 135 MEDLINE on STN DUPLICATE 9
TI Isolation and analysis of genes for amylolytic enzymes of the
hyperthermophilic bacterium Thermotoga maritima.
SO FEMS microbiology letters, (1998 Jan 1) 158 (1) 9-15.
Journal code: 7705721. ISSN: 0378-1097.
AU Bibel M; Brett C; Gossler U; Kriegshauser G; Liebl W
AN 1998115241 MEDLINE

L61 ANSWER 29 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Hyperthermstable extracellular alpha-amylase from Pyrococcus furiosus;
thermophilic bacterium recombinant enzyme production and
characterization (conference abstract)
SO Abstr.Pap.Am.Chem.Soc.; (1998) 216 Meet. Pt.3, BTEC019
CODEN: ACSRAL ISSN: 0065-7727
216th ACS National Meeting, Boston, MA, USA, 23-27 August, 1998, 216
Meet., Pt.3, 1998.
AU Savchenko A; Dong G; Vieille C; Zeikus G J
AN 1999-14174 BIOTECHDS

L61 ANSWER 30 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Vector for secretion for use in lactic acid bacteria, and production of a
protein by use of the vector;
recombinant enzyme e.g. amylase, peptidase or protease production
AN 1997-13446 BIOTECHDS
PI JP 09234078 9 Sep 1997

=> d 31-40

L61 ANSWER 31 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Termamyl-like alpha-amylase variants with improved properties;
enzyme engineering and expression in Bacillus spp.
AU Svensden A; Borchert T V; Bisgaard-Frantzen H
AN 1998-01800 BIOTECHDS
PI WO 9741213 6 Nov 1997

- L61 ANSWER 32 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Cloning and expression of the **gene** encoding super-thermostable **alpha-amylase** the **hyperthermophilic**
 Pyrococcus strain KOD-1, and characterization and use of the enzyme
 SO Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 IN Imanaka, Tadayuki; Tachibana, Yoshinaga; Suzuki, Yuji; Kojima, Iwao;
 Utsura, Kensaku
 AN 1997:470120 HCAPLUS
 DN 127:77927

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI JP 09173077	A2	19970708	JP 1996-191138	19960719

 L61 ANSWER 33 OF 135 MEDLINE on STN DUPLICATE 11
 TI Cloning, sequencing, characterization, and expression of an extracellular alpha-amylase from the **hyperthermophilic** archaeon Pyrococcus furiosus in Escherichia coli and Bacillus subtilis.
 SO Journal of biological chemistry, (1997 Jun 27) 272 (26) 16335-42.
 Journal code: 2985121R. ISSN: 0021-9258.
 AU Jorgensen S; Vorgias C E; Antranikian G
 AN 97341170 MEDLINE

 L61 ANSWER 34 OF 135 MEDLINE on STN DUPLICATE 12
 TI Application of the extracellular **alpha-amylase** **gene** from Streptococcus bovis 148 to construction of a secretion vector for yogurt starter strains.
 SO Applied and environmental microbiology, (1997 Nov) 63 (11) 4593-6.
 Journal code: 7605801. ISSN: 0099-2240.
 AU Satoh E; Ito Y; Sasaki Y; Sasaki T
 AN 1998027396 MEDLINE

 L61 ANSWER 35 OF 135 MEDLINE on STN DUPLICATE 13
 TI Cloning, sequencing, and expression of the **gene** encoding extracellular **alpha-amylase** from Pyrococcus furiosus and biochemical characterization of the recombinant enzyme.
 SO Applied and environmental microbiology, (1997 Sep) 63 (9) 3569-76.
 Journal code: 7605801. ISSN: 0099-2240.
 AU Dong G; Vieille C; Savchenko A; Zeikus J G
 AN 97438520 MEDLINE

 L61 ANSWER 36 OF 135 MEDLINE on STN DUPLICATE 14
 TI Characterization of the gene encoding an extracellular laccase of Myceliophthora **thermophila** and analysis of the recombinant enzyme expressed in Aspergillus oryzae.
 SO Applied and environmental microbiology, (1997 Aug) 63 (8) 3151-7.
 Journal code: 7605801. ISSN: 0099-2240.
 AU Berka R M; Schneider P; Golightly E J; Brown S H; Madden M; Brown K M; Halkier T; Mondorf K; Xu F
 AN 97394941 MEDLINE

 L61 ANSWER 37 OF 135 MEDLINE on STN DUPLICATE 15
 TI Properties and **gene** structure of the Thermotoga maritima **alpha-amylase** AmyA, a putative lipoprotein of a **hyperthermophilic** bacterium.
 SO Journal of bacteriology, (1997 Feb) 179 (3) 941-8.
 Journal code: 2985120R. ISSN: 0021-9193.
 AU Liebl W; Stemplinger I; Ruile P
 AN 97158692 MEDLINE

 L61 ANSWER 38 OF 135 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 16
 TI Study of stability of recombinant plasmids during the continuous culture

- SO of *Bacillus stearothermophilus* NUB3621 in nonselective medium
 BIOTECHNOLOGY AND BIOENGINEERING, (5 MAR 1997) Vol. 53, No. 5, pp.
 507-514.
 Publisher: JOHN WILEY & SONS INC, 605 THIRD AVE, NEW YORK, NY 10158-0012.
 ISSN: 0006-3592.
 AU Brigidi P (Reprint); GonzalezVara A; Rossi M; Matteuzzi D
 AN 97:193236 SCISEARCH
- L61 ANSWER 39 OF 135 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 17
 TI Study of stability of recombinant plasmids during the continuous culture
 of *Bacillus stearothermophilus* NUB3621 in nonselective medium
 SO BIOTECHNOL. BIOENG., (1997) vol. 53, no. 5, pp. 507-514.
 ISSN: 0006-3952.
 AU Brigidi, P.; Gonzalez-Vara, A.; Rossi, M.; Matteuzzi, D.
 AN 97:100335 LIFESCI
- L61 ANSWER 40 OF 135 MEDLINE on STN DUPLICATE 18
 TI A gene encoding for an **alpha-amylase** from
thermophilic *Bacillus* sp. strain TS-23 and its expression in
Escherichia coli.
 SO Journal of applied microbiology, (1997 Mar) 82 (3) 325-34.
 Journal code: 9706280. ISSN: 1364-5072.
 AU Lin L L; Hsu W H; Chu W S
 AN 2002694119 MEDLINE
- => d 41-50
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alpha-amylase gene from an archaeon,
Thermococcus profundus

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TI CLONING AND EXPRESSION OF THE **ALPHA-AMYLASE**
GENE FROM THE **HYPERTHERMOPHILIC** ARCHAEOON PYROCOCCUS SP
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TI Cloning and expression of the **alpha-amylase**
gene from the **hyperthermophilic** archaeon Pyrococcus sp.
KOD1, and characterization of the enzyme;
thermostable enzyme purification, characterization and gene
over-expression from plasmid pET-8c in Escherichia coli

SO J.Ferment.Bioeng.; (1996) 82, 3, 224-32
CODEN: JFBIEX ISSN: 0922-338X

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L61 ANSWER 48 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
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Escherichia coli transformation with vector containing a
polynucleotide encoding **alpha-amylase gene**
and competency induction; application in genetic engineering

AU Greener A L
AN 1995-08712 BIOTECHDS
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of Pyrococcus furiosus;
facilitates use of enzyme in industrial processes when cloned in
Escherichia coli

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used for industrial glucopolymer e.g. starch liquefaction at high
temperature
AN 1994-02942 BIOTECHDS
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Pyrococcus woesei and Pyrococcus furiosus recombinant enzyme
expression in *Bacillus* sp. for use in high temperature starch
liquefaction or starch saccharification
AN 1994-14387 BIOTECHDS
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TI New DNA encoding hyper-thermostable alpha-amylase;
Pyrococcus furiosus recombinant pullulanase, alpha-glucosidase,
beta-glucosidase or protease production in *Escherichia coli* or
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gene cloning, characterization and phage EMBL3 expression in
Escherichia coli and *Bacillus subtilis*
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 maltogenic and thermostable **alpha-amylase**
gene cloning and expression in *Escherichia coli* for use in
 starch liquefaction and saccharification for branched oligosaccharide
 production
 SO Biosci.Biotechnol.Biochem.; (1994) 58, 2, 416-18
 CODEN: BBBIEJ
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 MALTODEXTRIN GLYCOSYLTRANSFERASES INTO 2 DISTANTLY RELATED ENZYME
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Bacillus licheniformis;
 for production of cyclomaltodextrin-glucanotransferase, pullulanase or
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 AN 1993-09547 BIOTECHDS
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